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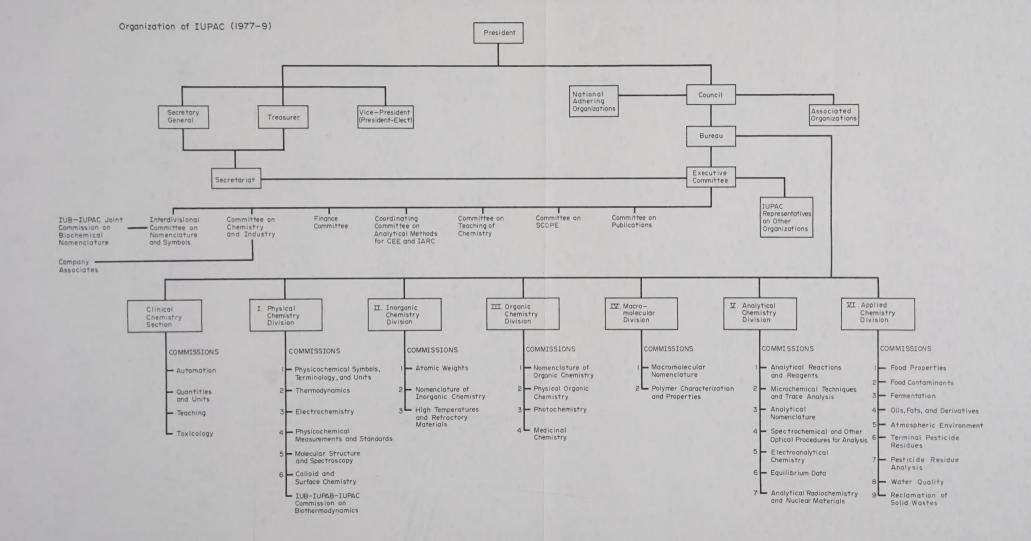
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Firmenich & Co. AG,

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F Hoffmann-La Roche & Co. AG, Grenzacherstrasse 124,

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Lonza AG, Münchensteinerstrasse 38, CH-4002 Basel, Switzerland.

Nestlé Alimentana AG, CH-1800 Vevey, Switzerland.

Sandoz AG, CH-4002 Basel, Switzerland.

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BP Chemicals International Ltd., Britannic House, Moor Lane, London EC2Y 9BU, UK.

CIBA-GEIGY (UK) Ltd., 30 Buckingham Gate, London SW1E 6LH, UK.

Distillers Co. Ltd., Glenochil Technical Centre, Menstrie, Clackmannanshire FK11 7ES, UK.

Esso Petroleum Co. Ltd., Esso House, Victoria Street, London SW1E 5JW, UK.

Fisons Ltd., Fison House, Princes Street, Ipswich, Suffolk IP1 1QH, UK.

Glaxo Group Ltd., Clarges House, 6-12 Clarges Street, London W1Y 8DH, UK. Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London SW1P 3JF, UK.

Laporte Industries Ltd., Kingsway, POB 8, Luton, Bedfordshire LU4 8EW, UK.

Monsanto Ltd., Monsanto House, 10-18 Victoria Street, London SW1H 0NQ, UK.

Pfizer Ltd., Sandwich, Kent CT13 9NJ, UK.

Roche Products Ltd., POB 8, Welwyn Garden City, Hertfordshire AL7 3AY, UK.

Shell Research Ltd., Shell Centre, London SE1 7PG, UK.

Unilever Ltd., POB 68, Unilever House, Blackfriars, London EC4P 4BQ, UK.

Wellcome Foundation Ltd., POB 129, Wellcome Building, 183 Euston Road, London NW1 2BP, UK.

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American Cyanamid Co., Bound Brook, New Jersey 08805, USA.

Amoco Chemicals Corpn., POB 400, Naperville, Illinois 60540, USA.

Ashland Chemical Co., POB 2219, Columbus, Ohio 43216, USA.

BASF Wyandotte Corpn., 1609 Biddle Avenue, Wyandotte, Michigan 48192, USA. Battelle Memorial Institute, 505 King Avenue, Columbus, Ohio 43201, USA.

Cabot Corpn., Concord Road, Billerica, Massachusetts 01821, USA.

Celanese Corpn., 1211 Avenue of the Americas, New York, New York 10036, USA.

CIBA-GEIGY Corpn., Ardsley, New York 10502, USA.

Corning Glass Works, Sullivan Park, Corning, New York 14830, USA.

Diamond Shamrock Corpn., POB 348, Painesville, Ohio 44077, USA.

Dow Chemical Co., Midland, Michigan 48640, USA.

Eastman Kodak Co., 1669 Lake Avenue, Rochester, New York 14650, USA.

Exxon Research and Engineering Co., POB 101, Florham Park, New Jersey 07932, USA.

Firestone Tyre & Rubber Co., 1200 Firestone Parkway, Akron, Ohio 44317, USA.

FMC Corpn., POB 8, Princeton, New Jersey 08540, USA.

Ford Motor Co., POB 2053, Dearborn, Michigan 48121, USA.

Foster Grant Co. Inc., 289 N Main Street, Leominster, Massachusetts 01453, USA.

General Electric Co., POB 8, Schenectady, New York 12345, USA. General Tire and Rubber Co., 2990 Gilchrist Road, Akron, Ohio 44305, USA.

Givaudan Corpn., 125 Delawanna Avenue, Clifton, New Jersey 07014, USA.

B F Goodrich Co., 9921 Brecksville Road, Brecksville, Ohio 44141, USA.

Goodyear Tire and Rubber Co., 142 Goodyear Boulevard, Akron, Ohio 44316, USA.

W R Grace and Co., 7379 Route 32, Washington Research Center, Columbia, Maryland 21029, USA.

GTE Sylvania Inc., Towanda, Pennsylvania 18848, USA.

Gulf Research and Development Co., POB 2038, Pittsburgh, Pennsylvania 15230, USA.

Hercules Inc., Hercules Research Center, Wilmington, Delaware 19899, USA.

Hoffmann-La Roche Inc., Nutley, New Jersey 07110, USA.

ICI United States Inc., Concord Pike and New Murphy Road, Wilmington, Delaware 19899, USA.

Eli Lilly and Co., POB 618, Indianapolis, Indiana 46206, USA.

Arthur D Little Inc., 25 Acorn Park, Cambridge, Massachusetts 02140, USA.

McNeil Laboratories Inc., Camp Hill Road, Fort Washington, Pennsylvania 19034, USA.

Merck, Sharp and Dohme Research Laboratories, Rahway, New Jersey 07065, USA.

Mobil Research and Development Corpn., POB 1025, Princeton, New Jersey 08540, USA.

Monsanto Co., 800 N Lindbergh Boulevard, St. Louis, Missouri 63166, USA.

Nalco Chemical Co., 6216 West 66th Place, Chicago, Illinois 60638, USA.

Olin Corpn., 275 Winchester Avenue, New Haven, Connecticut 06504, USA.

Owens-Illinois Inc., POB 1035, Toledo, Ohio 43666, USA.

Pfizer Inc., Eastern Point Road, Groton, Connecticut 06340, USA.

Philip Morris USA, Research Center, POB 26583, Richmond, Virginia 23261, USA.

Phillips Petroleum Co., Bartlesville, Oklahoma 74004, USA.

Polaroid Corpn., 730 Main Street-1T, Cambridge, Massachusetts 02139, USA.

E I du Pont de Nemours and Co. Inc., Wilmington, Delaware 19898, USA.

PPG Industries Inc., One Gateway Center, Pittsburgh, Pennsylvania 15222, USA.

Proctor and Gamble Co., Ivorydale Technical Center, Cincinnati, Ohio 45217,USA.

Pullman Kellogg, 16200 Park Row, Industrial Park 10, Houston, Texas 77084, USA.

Quaker Oats Co., 617 W Main Street, Barrington, Illinois 60010, USA. Ralston Purina Co., Checkboard Square, St. Louis, Missouri 63188, USA.

R. J. Reynolds Tobacco Co., Winston-Salem, North Carolina 27102, USA.

A. H. Robins Co. Inc., 1407 Cummings Drive, Richmond, Virginia 23220, USA.

Rohm and Haas Co., Norristown and McKean Roads, Spring House, Pennsylvania 19477, USA.

Schering Corpn., 60 Orange Street, Bloomfield, New Jersey 07003, USA.

G D Searle and Co., POB 5110, Chicago, Illinois 60680, USA.

Shell Development Co., POB 1380, Houston, Texas 77001, USA.

Smith, Kline and French Laboratories, POB 7929, 1500 Spring Garden Street, Philadelphia, Pennsylvania 19101, USA.

Standard Oil Co. (Indiana), POB 400, Naperville, Illinois 60540, USA.

Stauffer Chemical Corpn., Westport, Connecticut 06880, USA.

Syntex Corpn., 3401 Hillview Avenue, Palo Alto, California 94304, USA.

Tennessee Eastman Co., POB 511, Kingsport, Tennessee 37662, USA.

Union Carbide Corpn., Tarrytown Technical Center, Old Saw Mill River Road, Tarrytown, New York 10591, USA.

Upjohn Co., 301 Henrietta Street, Kalamazoo, Michigan 49001, USA. Warner-Lambert/Parke-Davis, 2800 Plymouth Road, Ann Arbor, Michigan 48106, USA.

Westinghouse Electric Corpn., 1310 Beulah Road, Pittsburgh, Pennsylvania 15235, USA.

Westvaco, POB 4795, Charleston, South Carolina 29405, USA.

CHEMRAWN PLANNING COMMITTEE*

(Established 1976)

Chairman

1976- Dr. B. W. ROSSITER,
Chemistry Division, Research Laboratories, Eastman
Kodak Co.,
1669 Lake Avenue,
Rochester, New York 14650, USA.
(TEL: 716-458 1000)

Members

1976- Prof. A. ABOU-EL-AZM,
Academy of Scientific Research and Technology,
101 Kasr El Eini Street,
Cairo, Arab Republic of Egypt.

1976- Dr. J. W. BARRETT, 195 Latymer Court, Hammersmith Road, London W6 7JQ, UK.

1976- Prof. D. BEHRENS,
DECHEMA,
Postfach 970146, Theodor-Heuss-Allee 25,
D-6000 Frankfurt/Main 97, Federal Republic of Germany.

1976- Dr. H. EGAN,
Laboratory of the Government Chemist, Department of Industry,
Cornwall House, Stamford Street,
London SE1 9NQ, UK.

1976- Prof. C. G. OVERBERGER, 4080 Administration Building, University of Michigan, Ann Arbor, Michigan 48109, USA.

1976- Prof. G. E. ZAIKOV,
Institute of Chemical Physics, Academy of Sciences of USSR,
Vorobyevskoye Road 2-b,
SU-117334 Moscow, USSR.

1976- Prof. H. ZOLLINGER,
Technisch-Chemisches Laboratorium der Eidgenössischen
Technischen Hochschule Zürich,
Universitätstrasse 6,
CH-8092 Zürich, Switzerland.

^{*}CHEMRAWN = Chemical Research Applied to World Needs

COMMITTEE ON PUBLICATIONS (CP)*

(Established in its present form 1969)

Chairman

Dr. H. GRÜNEWALD,
Gesellschaft Deutscher Chemiker,
Boschstrasse 12,
D-6940 Weinheim, Federal Republic of Germany.
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Members

1977- Dr. C. T. BISHOP,
Publishing Department, National Research Council of
Canada,
Ottawa, Ontario K1A 0R6, Canada.

Dr. K. BLÁHA,
Institute of Organic Chemistry and Biochemistry,
Československá Akademie Věd,
Flemingovo Náměstí 2,
CS-166 10 Praha 6-Dejvice, Czechoslovakia.

1978- Prof. S. CLAESSON,
Fysikalisk-Kemiska Institutionen, Uppsala Universitet,
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S-751 21 Uppsala 1, Sweden.

Dr. D. P. DEN OS, Koninklijke Nederlandse Chemische Vereniging, Burnierstraat 1, NL-2018 's-Gravenhage, Netherlands.

1973- Prof. A. PEREZ-MASIÁ,
Instituto de Química Física "Rocasolano", Consejo
Superior de Investigaciones Científicas,
Serrano 119,
Madrid-6, Spain.

1978- Dr. I. A. WILLIAMS, Chemical Society, Burlington House, Piccadilly, London W1V 0BN, UK.

Scientific Editor of PAC (to be appointed)

^{*}For Standing Orders, see page 180.

PURE AND APPLIED CHEMISTRY (PAC)

Official Journal of IUPAC

Scientific Editor (to be appointed)

COMMITTEE ON SCOPE (CS)*

(Established 1971)

Chairman

1977- Dr. H. EGAN,
Laboratory of the Government Chemist, Department of Industry,
Cornwall House, Stamford Street,
London SE1 9NQ, UK.
(TEL: 01-928 7900)

Members

(Revised membership under consideration)

COMMITTEE ON CHEMISTRY AND INDUSTRY (CCI) †

(Established 1977) Chairman/Members (to be appointed)

^{*}For Standing Orders, see page 181.

[†] For Standing Orders, see page 182.

COMMITTEE ON TEACHING OF CHEMISTRY (CTC)*

(Established 1963)

Chairman

1971- Prof. C. N. R. RAO, Solid State and Structural Chemistry Unit, Indian Institute of Science, Malleswaram, Bangalore-560012, India. (TEL: 34411. TELEX: 043-326)

Secretary

1977- Prof. D. J. WADDINGTON,
Department of Chemistry, University of York,
Heslington, York Y01 5DD, UK.
(TEL: 0904-59861)

Members

- 1974- Prof. I. V. BEREZIN,
 Faculty of Chemistry, Lomonosov Moscow State University,
 Leninskie Gory,
 SU-117234 Moscow, USSR.
- 1975- Prof. G. S. HAMMOND, Merrill College, University of California, Santa Cruz, California 95064, USA.
- 1974- Prof. G. ILLUMINATI, Istituto Chimica, Università degli Studi di Roma, I-00185 Roma, Italy.
- 1974- Prof. M. LAFFITTE,
 Délégation Générale à la Recherche Scientifique et
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 Recherche,
 35 Rue Saint-Dominique,
 F-75700 Paris, France.
- 1976- Dr. T. M. SUGDEN, Trinity Hall, Cambridge CB2 1TJ, UK.
- 1973- Prof. D. VITOROVIČ,
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^{*}For Standing Orders, see page 183.

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Czecho- Prof. J. GAŽO,

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1974-1979 Department of Chemistry, University College, Dublin, Ireland.

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1976-1979 Department of Inorganic Chemistry, Chalmers University

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1976-1979 Murnikova 6,

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COORDINATING COMMITTEE FOR ANALYTICAL METHODS FOR CEE AND IARC (CCAM)*

(Established in its present form 1975)

Chairman

1972- Prof. F. PELLERIN, Hôpital Général Emile Roux, F-95600 Eaubonne, France. (TEL: 1-959 5520)

Secretary

1969- Dr. H. EGAN,
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1977- Dr. J. BARTOS, Centre de Recherches Roussel Uclaf SA, 102 Route de Noisy, F-93230 Romainville, France.

1975- Dr. E. O. HAENNI, 7907 Glenbrook Road, Bethesda, Maryland 20014, USA.

1977- Prof. A. HULANICKI,
Instytut Podstawowych, Problemów Chemii, Wydział
Chemii, Uniwersytet Warszawaski,
Ul. Pateura 1.,
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1973- Dr. K. KOJIMA,
Laboratory for Medicinal Plants, National Institute of
Hygienic Sciences,
Higashi 2-8-65, Kasukabe, Kasukabe-shi,
Saitama-ken 344, Japan.

^{*}For Standing Orders, see page 184.

- 1971- Dr. R. MARCUSE, SIK-Svenska Livsmedelsinstitutet, Fack, S-400 23 Göteborg 27, Sweden.
- 1975- Dr. P. L. SCHULLER, Rijks Instituut voor de Volksgezondheid, POB 1, Antonie van Leeuwenhoeklaan 9, Bilthoven, Netherlands.

FINANCE COMMITTEE (FC)*

(Established in its present form 1963)

Chairman

1971- Prof. A. BJÖRKMAN, Instituttet for Kemiindustri, Danmarks Tekniske Højskole, Bygning 227, DK-2800 Lyngby, Denmark. (TEL: 02 884144).

Members

1977- Dr. P. J. AGIUS, Esso Petroleum Co. Ltd., Esso House, Victoria Street, London SW1E 5JW, UK.

1975- Dr. W. GRAULICH,
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D-5090 Leverkusen-Bayerwerk, Federal Republic of Germany.

1975- Prof. J. MATHIEU, Centre de Recherches Roussel Uclaf, 102 Route de Noisy, F-93230 Romainville, France.

1975- Dr. B. W. ROSSITER,
Chemistry Division, Research Laboratories, Eastman
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1973- Prof. G. E. ZAIKOV,
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SU-117334 Moscow, USSR.

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1971- Prof. O. HORN, Hoechst AG, Postfach 800320, D-6230 Frankfurt/Main 80, Federal Republic of Germany.

^{*}For Standing Orders, see page 185.

INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS (IDCNS)*

(Established in its present form 1975)

Chairman

1976-1980 Dr. K. L. LOENING, Chemical Abstracts Service, POB 3012, Columbus, Ohio 43210, USA. (TEL: 614-421 6940)

Vice-Chairman

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Secretary

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Scientific Editor of PAC (to be appointed)

Clinical Chemistry Section

1975-1979 Dr. R. DYBKAER,
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Nordre Fasanvej 59,
DK-2000 København F, Denmark.

Physical Chemistry Division

1975-1979 Dr. D. R. LIDE, Jr., Office of Standard Reference Data, National Bureau of Standards, US Department of Commerce, Washington, DC 20234, USA.

1975-1979 Prof. D. H. WHIFFEN,
Department of Physical Chemistry, School of Chemistry,
University of Newcastle upon Tyne,
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^{*}For Standing Orders, see page 186.

Inorganic Chemistry Division

1977-1981 Prof. J. CHATT,
Agricultural Research Council Unit of Nitrogen Fixation,
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Brighton BN1 9QJ, UK.

1975-1979 Prof. W. C. FERNELIUS,
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Kent, Ohio 44242, USA.

Organic Chemistry Division

1975-1979 Mr. S. P. KLESNEY, Central Report Index, 566 Building, Dow Chemical Co., Midland, Michigan 48640, USA.

1975-1979 Prof. J. RIGAUDY,
Laboratoire de Recherches Organiques, École Supérieure
de Physique et de Chimie Industrielle, Université Pierre
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10 Rue Vauquelein,
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Macromolecular Division

1975-1979 Dr. W. RING, Chemische Werke Hüls AG, Organische Abteilung, Postfach 1180, D-4370 Marl-Hüls 1, Federal Republic of Germany.

1976-1980 Prof. T. TSURUTA,
Department of Synthetic Chemistry, Engineering Faculty,
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3-1 Hongo 7-chome, Bunkyo-ku,
Tokyo, Japan.

Analytical Chemistry Division

1975-1979 Prof. H. M. N. H. IRVING, 1 North Grange Mount, Leeds LS6 2BY, UK.

1975-1979 Prof. O. SAMUELSON, Institutionen för Teknisk Kemi, Chalmers Tekniska, Högskola, Gibraltargatan 5A, Fack, S-402 20 Göteborg 5, Sweden.

Applied Chemistry Division

1975-1979 Dr. H. EGAN,
Laboratory of the Government Chemist, Department of Industry,
Cornwall House, Stamford Street,
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1975-1979 Dr. J. A. EPSTEIN, Dead Sea Works Ltd., POB 75, Potash House, Beer-Sheba 84 100, Israel.

> Bureau International des Poids et Mesures Prof. J. TERRIEN, Bureau International des Poids et Mesures, Pavillon de Breteuil, F-92310 Sèvres, France.

International Organization for Standardization
Mrs. V. SIMONSGAARD,
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International Union of Biochemistry
Prof. P. KARLSON,
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International Union of Nutritional Sciences
Dr. S. R. AMES,
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(Established in its present form 1936)

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I.2 COMMISSION ON THERMODYNAMICS

(Established in its present form 1977)

Titular Members

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1.3 COMMISSION ON ELECTROCHEMISTRY

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I.4 COMMISSION ON PHYSICOCHEMICAL MEASUREMENTS AND STANDARDS

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1.5 COMMISSION ON MOLECULAR STRUCTURE AND SPECTROSCOPY

(Established 1955)

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I.6 COMMISSION ON COLLOID AND SURFACE CHEMISTRY

(Established 1961)

Titular Members

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1975-1979 Prof. R. S. HANSEN, Ames Laboratory, US Energy Research and Development Administration, Iowa State University, Ames, Iowa 50011, USA.

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- 1977-1981 Prof. G. L. HALLER,
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- 1975-1979 Prof. P. MUKERJEE, School of Pharmacy, University of Wisconsin, Madison, Wisconsin 53706, USA.
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- 1975-1979 Dr. L. TER-MINASSIAN-SARAGA, Laboratoire de Physico-Chimie des Surfaces et Membranes, UER Biomédicale 81, 45 Rue des Saints-Pères, F-75270 Paris Cedex 06, France.
- 1975-1979 Dr. I. I. TRETIAKOV,
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II INORGANIC CHEMISTRY DIVISION

(Established 1949)

DIVISION COMMITTEE

President

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1969-1979 Prof. L. MALATESTA,
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1977-1981 Prof. R. C. MEHROTRA, Vice Chancellor's Office, University of Delhi, Delhi-110007, India.

1975-1979 Prof. K. B. YATZIMIRSKII,

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11.1 COMMISSION ON ATOMIC WEIGHTS

(Established 1930)

Titular Members

Chairman

1969-1979 Prof. E. ROTH.

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Secretary

1973-1981 Dr. N. E. HOLDEN,

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1975-1979 Dr. I. L. BARNES,

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- 1973-1981 Dr. A. E. CAMERON, 114 W Malta Road, Oak Ridge, Tennessee 37830, USA.
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- 1975-1979 Prof. N. N. GREENWOOD,
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- 1977-1981 Prof. Y. HORIBE, Ocean Research Institute, University of Tokyo, 1-15-1 Minamidai, Nakano-ku, Tokyo 164, Japan.
- 1975-1979 Mr. H. S. PEISER,
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II.2 COMMISSION ON NOMENCLATURE OF INORGANIC CHEMISTRY

(Established 1921)

Titular Members

Chairman

1975-1979 Prof. J. CHATT,

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1971-1979 Prof. Y. JEANNIN,

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- 1977-1981 Prof. J. KLIKORKA,
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- 1977-1981 Dr. E. SAMUEL, Laboratoire de Chimie Organique Industrielle, École Nationale Supérieure de Chimie, Université de Paris VI, 11 Rue Pierre et Marie Curie, F-75231 Paris Cedex 05, France.

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1975-1979 Department of Chemistry, Faculty of Science, Tohoku

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II.3 COMMISSION ON HIGH TEMPERATURES AND REFRACTORY MATERIALS

(Established 1951)

Titular Members

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- 1977-1981 Prof. S. MROWEC, Instytut Chemia Ciała Stałego Akademia, Górniczo Hutnicza im Stanisława Staszica w Krakowie, Aleja Mickiewicza 30, Krakow, Poland.
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(Established 1949)

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Vice-President

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1977-1981 Prof. J. MATHIEU, Centre de Recherches Roussel Uclaf SA, BP 9, 102 Route de Noisy, F-93230 Romainville, France. (TEL: 843 9310)

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111.1 COMMISSION ON NOMENCLATURE OF ORGANIC CHEMISTRY

(Established 1921)

Titular Members

Chairman

1967-1979 Prof. J. RIGAUDY,

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1968-1979 Mr. S. P. KLESNEY,

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- 1977-1981 Dr. L. C. CROSS, Chemical Society, Burlington House, Piccadilly, London W1V 0BN, UK.
- 1975-1979 Dr. D. ECKROTH, John Wiley & Sons Inc., 605 Third Avenue, New York, New York 10016, USA.
- 1975-1979 Dr. J. H. FLETCHER,
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- 1977-1981 Dr. S. HAMMERUN,
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- 1975-1979 Prof. D. HELLWINKEL,
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- 1977-1981 Prof. N. LOZAC'H, École Nationale Supérieure de Chimie, Université de Caen, 5 Avenue d'Edimbourg, F-14032 Caen, France.
- 1977-1981 Dr. A. D. McNAUGHT, Chemical Society, Burlington House, Piccadilly, London W1V 0BN, UK.
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- 1975-1979 Prof. J. C. RICHER,
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III.2 COMMISSION ON PHYSICAL ORGANIC CHEMISTRY

(Established 1973)

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Secretary

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Associate Members

- 1974-1979 Prof. A. R. H. COLE, School of Chemistry, University of Western Australia, Nedlands, Western Australia, Australia 6009.
- 1977-1981 Prof. R. D. GUTHRIE,
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 Lexington, Kentucky 40506, USA.
- 1977-1981 Dr. R. A. Y. JONES, School of Chemical Sciences, University of East Anglia, Norwich NR4 7TJ, UK.
- 1977-1981 Prof. J. MARCH,
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- 1977-1981 Dr. J. REEDYK,
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- 1977-1981 Prof. A. STREITWIESER, Jr., Department of Chemistry, University of California, Berkeley, California 94720, USA.

III.3 COMMISSION ON PHOTOCHEMISTRY

(Established in its present form 1975)

Titular Members

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1971-1979 Prof. K. SCHAFFNER,

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Secretary

1975-1979 Prof. F. C. DE SCHRYVER,

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1973-1981 Prof. T. MUKAI,

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- 1977-1981 Prof. J. MICHL,
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- 1977-1981 Prof. M. OTTOLENGHI,
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- 1977-1981 Prof. C. SANDORFY,
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1973-1979 Nasr City, Cairo, Arab Republic of Egypt.

III.4 COMMISSION ON MEDICINAL CHEMISTRY

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1977-1981 Prof. P. S. PORTOGHESE,

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(Established 1949)

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V.1 COMMISSION ON ANALYTICAL REACTIONS AND REAGENTS

(Established 1934)

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1977-1981 Prof. E. WÄNNINEN, Faculty of Chemical Technology, Åbo Akademi, Domkyrkotorget 3, SF-20500 Åbo 50, Finland.

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- 1975-1979 Prof. YU. A. BANKOWSKI, Institute of Inorganic Chemistry, Latvia Academy of Sciences, Meistaru 10, Riga, USSR.
- 1975-1979 Prof. N. JORDANOV, Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia 13, Bulgaria.
- 1975-1979 Prof. F. PELLERIN, Hôpital Général Emile Roux, F-95600 Eaubonne, France.
- 1977-1981 Prof. A. T. PILIPENKO,
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- 1977-1981 Dr. J. RŮŽIČKA,
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- 1977-1981 Prof. L. SOMMER,
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- 1977-1981 Prof. D. THORBURN BURNS,
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- 1977-1981 Prof. H. F. WALTON,
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V.2 COMMISSION ON MICROCHEMICAL TECHNIQUES AND TRACE ANALYSIS

(Established in its present form 1967)

Titular Members

Chairman

1975-1979 Prof. M. GRASSERBAUER,
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V.3 COMMISSION ON ANALYTICAL NOMENCLATURE

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Titular Members

Chairman

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1977-1979

V.4 COMMISSION ON SPECTROCHEMICAL AND OTHER OPTICAL PROCEDURES FOR ANALYSIS

(Established in its present form 1959)

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Chairman

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V.5 COMMISSION ON ELECTROANALYTICAL CHEMISTRY

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V.6 COMMISSION ON EQUILIBRIUM DATA

(Established 1955)

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1969-1979 Prof. A. S. KERTES, Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, Israel.

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- 1973-1979 Prof. Y. MARCUS, Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, Israel.
- 1977-1981 Dr. L. D. PETTIT, School of Chemistry, University of Leeds, Leeds LS2 9JT, UK.
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V.7 COMMISSION ON ANALYTICAL RADIO-CHEMISTRY AND NUCLEAR MATERIALS

(Established 1965)

Titular Members

Chairman

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Associate Members

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VI APPLIED CHEMISTRY DIVISION

(Established 1949)

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1973-1981 Dr. A. F. LANGLYKKE, Frederick Cancer Research Center, POB B, Frederick, Maryland 21701, USA. (TEL: 301-663 8000)

Secretary

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- 1975-1979 Prof. D. REYMOND, Nestlé Products Technical Assistance Co. Ltd., Case Postale 88, CH-1814 La Tour de Peilz, Switzerland.
- 1977-1981 Prof. K. VAS, Központo Élelmiszeripari Kutató Intézet, Herman Otto Út 15, Budapest II, Hungary.
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VI.1 COMMISSION ON FOOD PROPERTIES

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VI.2 COMMISSION ON FOOD CONTAMINANTS

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1973-1979 Dr. K. KOJIMA,

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COORDINATING COMMITTEE ON FOOD CHEMISTRY

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VI.3 COMMISSION ON FERMENTATION

(Established in its present form 1975)

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VI.4 COMMISSION ON OILS, FATS, AND DERIVATIVES

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- 1975-1979 Mr. A. PETERSEN,
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- 1977-1981 Drs. J. C. VAN DER WEEL, Unilever Emery NV, POB 2, Buurtje 1, NL-2300 Gouda, Netherlands.
- 1975-1979 Prof. H. WESSELS, Bundesanstalt für Fettforschung, Piusallee 68-76, D-4400 Münster, Federal Republic of Germany.

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1974-1979 London EC1R 4RB, UK.

United Dr. W. E. LINK,

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WORKING GROUPS OF COMMISSION ON OILS, FATS, AND DERIVATIVES

WG 2 Determination of Total Oxidized Fatty Acids by TLC and Densitometry

Prof. M. NAUDET (Chairman—France), Mme. J. CASTANG (France), Dr. D. G. CHOBANOV (Bulgaria), Dr. A. DIEFFENBACHER (Switzerland), Dr. D. FIRESTONE (USA), Mlle. B. JACOBSBERG (Belgium), Dr. E. KURUCZ (Hungary), Mr. A. T. MØLLER (Denmark), Dr. R. OHLSON (Sweden), Dr. J. POKORNÝ (Czechoslovakia), Drs. H. J. VOS (Netherlands), Dr. K. A. WILLIAMS (UK), Prof. W. ZWIERZYKOWSKI (Poland).

WG 3 Determination of Tocopherols (free and esterified) in Oils, Fats, and Margarine

Drs. P. W. HENDRIKSE (Chairman—Netherlands), Ing. C. CAROLA (Italy), Mme. J. CASTANG (France), Mme. C. COURCELLES (France), Prof. E. L. DELVAUX (Belgium), Dr. N. D. EMBREE (USA), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Mile. B. JACOBSBERG (Belgium), Dr. A. R. JOHNSON (Australia), Dr. R. OHLSON (Sweden), Prof. C. PAQUOT (France), Mr. W. D. POCKLINGTON (UK), Dr. H. T. SLOVER (USA), Dr. J. P. WOLFF (France), Mr. F. ZWOBADA (France).

WG 4 Determination of Chlorinated Pesticides in Oils and Fats

Prof. E. L. DELVAUX (Chairman—Belgium), Prof. T. ASAHARA (Japan), Mme. J. CASTANG (France), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Dr. P. A. GREVE (Netherlands), Dr. T. HASHIMOTO (Japan), Prof. V. M. KAPOULAS (Greece), Mr. A. T. MØLLER (Denmark), Prof. R. MONACELLI (Italy), Dr. R. OHLSON (Sweden), Ing. L. G. M. TH. TUINSTRA (Netherlands), Dr. H. H. R. H. WENDT (Federal Republic of Germany), Dr. K. A. WILLIAMS (UK).

WG 5 Determination of Content of cis-cis Linoleic Acid of Oils, Fats. and Margarine

Dr. Ö. LEVIN (Chairman—Sweden), Dr. J. BEARE-ROGERS (Canada), Dr. D. FIRESTONE (USA), Dr. A. R. JOHNSON (Australia), Mr. A. T. MØLLER (Denmark), Dr. R. OHLSON (Sweden), Prof. H. WESSELS (Federal Republic of Germany), Dr. K. A. WILLIAMS (UK).

WG 6 Determination of Oil Content of Oil Seeds by NMR Techniques

Dr. J. P. WOLFF (Chairman—France), Dr. J. A. CORNELIUS (UK), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Mr. A. H. GUNN (Australia), Drs. P. W. HENDRIKSE (Netherlands), Dr. E. KURUCZ (Hungary), Mr. A. T. MØLLER (Denmark), Prof. M. NAUDET (France), Drs. H. J. VOS (Netherlands), Dr. K. A. WILLIAMS (UK), Prof. W. ZWIERZYKOWSKI (Poland).

WG 7 Changes Taking Place in Oils and Fats during Deep Fat Frying

Prof. H. WESSELS (Chairman—Federal Republic of Germany), Dr. J. BEARE-ROGERS (Canada), Dr. H. BRÜSCHWEILER (Switzerland), Mme. J. CASTANG (France), Mme. C. COURCELLES (France), Dr. A. DIEFFENBACHER (Switzerland), Mr. U. ENGELRUD (Denmark), Prof. M. GASSIOT-MATAS (Spain), Dr. J. GRACIAN TOUS (Spain), Mr. T. GRIMSVANG (Norway), Prof. J. HOLLO (Hungary), Miss B. JACOBSBERG (Belgium), Dr. E. KURUCZ (Hungary), Prof. M. NAUDET (France), Dr. R. OHLSON (Sweden), Mr. M. E. PATTINSON (New Zealand), Mr. A. PÈTERSEN (Denmark), Dr. J. POKORNÝ (Czechoslovakia), Prof. A. RUTKOWSKI (Poland), Prof. E. TISCORNIA (Italy), Drs. H. J. VOS (Netherlands), Dr. A. WALTKING (USA), Dr. K. A. WILLIAMS (UK), Mr. F. ZWOBADA (France).

WG 8 Identification and Determination of Emulsifiers (derived from fatty material) in Oils, Fats, Fat Products, and Cosmetics

Dr. H. BRÜSCHWEILER (Chairman—Switzerland), Prof. T. ASAHARA (Japan), Dr. A. DIEFFENBACHER (Switzerland), Mr. U. ENGELRUD (Denmark), Dr. D. FIRESTONE (USA), Dr. A. HAUTFENNE (Belgium), Dr. E. KURUCZ (Hungary), Mr. A. T. MØLLER (Denmark), Prof. R. MONACELLI (Italy), Dr. T. NAGAI (Japan), Dr. R. OHLSON (Sweden), Dr. J. POKORNÝ (Czechoslovakia), Dr. M. TEUPEL (Federal Republic of Germany), Drs. H. J. VOS (Netherlands), Drs. J. C. van der WEEL (Netherlands), Dr. H. H. R. H. WENDT (Federal Republic of Germany), Dr. K. A. WILLIAMS (UK), Dr. J. P. WOLFF (France), Prof. W. ZWEIRZYKOWSKI (Poland).

WG 9 6th Edition of Standard Methods for Analysis of Oils, Fats, and Soaps

Prof. C. PAQUOT (Chairman—France), Prof. E. L. DELVAUX (Belgium), Dr. A. HAUTFENNE (Belgium), Dr. P. R. E. LEWKOWITSCH (UK), Dr. W. E. LINK (USA), Mr. A. T. MØLLER (Denmark), Drs. H. J. VOS (Netherlands), Dr. J. P. WOLFF (France).

WG 11 Determination of Total Fat Content of Margarine

Prof. M. NAUDET (Chairman—France), Dr. J. BEARE-ROGERS (Canada), Prof. E. L. DELVAUX (Belgium), Mr. U. ENGELRUD (Denmark), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Mr. B. McGWYNNE (Ireland), Mlle. B. JACOBSBERG (Belgium), Dr. E. KURUCZ (Hungary), Dr. O. LEVIN (Sweden), Prof. R. MONACELLI (Italy), Dr. R. OHLSON (Sweden), Mr. A. PETERSEN (Denmark), Mme. M. T. RICHERT (France), Drs. H. J. VOS (Netherlands), Dr. H. H. R. H. WENDT (Federal Republic of Germany), Prof. W. ZWIERZYKOWSKI (Poland).

WG 12 Determination of Plastic Polymers in Oils and Fats

Drs. J. C. Van der WEEL (Chairman—Netherlands), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Mr. B. McGWYNNE (Ireland), Dr. M. TEUPEL (Federal Republic of Germany), Dr. J. P. WOLFF (France).

WG 13 Determination of Undesirable Plastic-based Contaminants (other than polyethylene) in Oils and Fats

Dr. Ö. LEVIN (Chairman—Sweden), Prof. E. L. DELVAUX (Belgium), Dr. D. FIRESTONE (USA), Dr. J. P. WOLFF (France).

WG 14 Revision of Determination of Unsaponifiable Matter: Method II.D.5

Prof. M. NAUDET (Chairman—France), Dr. H. BRÜSCHWEILER (Switzerland), Ing. C. CAROLA (Italy), Mme. J. CASTANG (France), Mr. J. DIZIER (France), Dr. D. FIRESTONE (USA), Dr. J. GRACIAN TOUS (Spain), Mr. B. McGWYNNE (Ireland), Dr. E. KURUCZ (Hungary), Dr. R. OHLSON (Sweden), Mr. A. PREVOT (France), Mme. M. T. RICHERT (France), Prof. A. RUTKOWSKI (Poland), Dr. M. TEUPEL (Federal Republic of Germany), Prof. E. TISCORNIA (Italy), Drs. H. J. VOS (Netherlands), Drs. J. C. Van der WEEL (Netherlands), Dr. K. A. WILLIAMS (UK), Mr. F. ZWOBADA (France).

WG 15 Revision of Determination of Acid Value: Method II.D.1

Drs. H. J. VOS (Chairman—Netherlands), Dr. D. FIRESTONE (USA), Drs. P. W. HENDRIKSE (Netherlands), Mr. W. D. POCKLINGTON (UK), Drs. J. C. Van der WEEL (Netherlands).

WG 16 Determination of Glycerines
Mr. A. T. MØLLER (Chairman—Denmark)

WG 17 Determination of Alkaline Soaps
Dr. H. BRÜSCHWEILER (Chairman—Switzerland)

Prof. H. WESSELS (Chairman—Federal Republic of Germany), Dr. J. BEARE-ROGERS (Canada), Dr. Ö. LEVIN (Sweden), Mr. W. D. POCKLINGTON (UK), Dr. K. A. WILLIAMS (UK), Dr. J. P. WOLFF (France), Prof. W. ZWIERZYKOWSKI (Poland).

VI.5 COMMISSION ON ATMOSPHERIC ENVIRONMENT

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1975-1979 Dr. S. FREYSCHUSS, Institutet för Vatten- och Luftvårdsforskning, POB 21060, Hälsingegatan 43, S-100 31 Stockholm, Sweden.

1973-1981 Dr. M. FUGAŠ, Institut za Medicinska Istraživanja i Medicinu Rada, Jugoslavenska Akademija Znanosti i Umjetnosti, Pošt. Pret. 291, Moše Pijade 158, YU-41000 Zagreb, Yugoslavia.

1977-1981 Ir. K. LEICHNITZ,
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National Representative

New Dr. D. J. SPEDDING,

Zealand Department of Chemistry, University of Auckland,
1977-1979 Private Bag,
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VI.6 COMMISSION ON TERMINAL PESTIC!DE RESIDUES

(Established 1965)

Titular Members

Chairman

1973-1979 Dr. P. C. KEARNEY,

Pesticide Degradation Laboratory, Agricultural Environment Quality Institute, US Department of Agriculture, Beltsville, Maryland 20705, USA.

(TEL: 301-344 3533)

Secretary

1975-1979 Dr. R. GREENHALGH,

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Members

1971-1979 Dr. R. L. BARON,

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1973-1979 Prof. D. G. CROSBY,
Department of Environmental Toxicology, University
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Davis, California 95616, USA.

1975-1979 Prof. R. ENGST,

Zentralinstitut für Ernährung der Akademie der Wissenschaften der DDR, Arthur-Scheunert-Allee 114-116, 1501 Bergholz-Rehbrücke, German Democratic Republic.

1971-1979 Dr. H. GEISSBÜHLER, Agrochemical Division, CIBA-GEIGY AG, CH-4002 Basel, Switzerland.

1971-1979 Prof. F. KORTE,

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1973-1979 Dr. J. MIYAMOTO,

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Associate Members

1977-1979 Dr. K. I. BEYNON,

Tunstall Laboratory, Sittingbourne Research Centre, Shell Research Ltd., Sittingbourne, Kent ME9 8AG, UK.

1977-1979 Dr. J. DESMORAS,

Centre Nicolas Grillet, Rhône-Poulenc Industries, 13 Quai Jules Guesde, F-94400 Vitry-sur-Seine, France.

1971-1979 Dr. N. DRESCHER,

Landwirtschaftliche Versuchsstation, BASF Aktiengesellschaft, Postfach 220, D-6703 Limbürgerhof, Federal Republic of Germany.

1975-1979 Dr. G. G. STILL,

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1977-1979 Dr. J. W. VONK,

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National Representative

New Dr. G. W. MASON, Zealand Ivon Watkins-Dow Ltd., 1975-1979 POB 144.

New Plymouth, New Zealand.

VI.7 COMMISSION ON PESTICIDE RESIDUE ANALYSIS

(Established 1965)

Titular Members

Chairman

1975-1979 Mr. M. J. EDWARDS,
Plant Protection Division, Imperial Chemical Industries
Ltd., Jealott's Hill Research Station,
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Secretary

1977-1979 Mr. J. A. R. BATES,
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(TEL: 058-27 5241)

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1973-1979 Dr. V. BÁTORA, Výskumný Ústav Agrochemickej Technológie, CS-810 04 Bratislava-Predmestie, Czechoslovakia.

1977-1979 Dr. S. GORBACH,
Hoechst AG, Analytical Laboratory,
Postfach 800320,
D-6230 Frankfurt/Main 80, Federal Republic of Germany.

1975-1979 Dr. P. A. GREVE, Rijks Instituut voor de Volksgezondheid, POB 1, Antonie van Leeuwenhoeklaan 9, Bilthoven, Netherlands.

1975-1979 Dr. M. A. KLISENKO,
Department of Chemistry, All-Union Scientific Research
Institute of Hygiene and Toxicology of Pesticides,
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Jeroev Oborony 6,
SU-252127 Kiev, USSR.

Associate Members

1973-1979 Mr. S. G. HEUSER,
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Agriculture, Fisheries and Food,
London Road,
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1975-1979 Mr. I. S. TAYLOR, Regional Laboratory (Victoria), Australian Government Analytical Laboratories, POB 2809 AA, Melbourne, Victoria, Australia 3001.

1975-1979 Prof. H. P. THIER, Institute of Food Chemistry, University of Münster, Piusallee 7, D-4400 Münster, Federal Republic of Germany.

1975-1979 Dr. S. LJ. VITOROVIĆ,
Pesticide Department, University of Beograd,
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COORDINATING COMMITTEE ON PESTICIDE CHEMISTRY

Chairman

Dr. H. FREHSE,
Pflanzenschutz, Anwendungstechnik, Biologische
Forschung, Bayer AG,
D-5090 Leverkusen-Bayerwerk, Federal Republic of
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Vice-Chairman

Dr. P. C. KEARNEY, Pesticide Degradation Laboratory, Agricultural Environment Quality Institute, US Department of Agriculture, Beltsville, Maryland 20705, USA. (TEL: 301-344 3082)

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Mr. M. J. EDWARDS, Plant Protection Division, Imperial Chemical Industries Ltd., Jealott's Hill Research Station, Bracknell RG12 6EY, Berkshire, UK. (TEL: 0344-24701. TELEX: 847556)

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Dr. J. MIYAMOTO, Research Department, Pesticides Division, Sumitomo Chemical Co. Ltd., 4-2-1 Takatsukasa, Takarazuka, Hyogo 665, Japan.

VI.8 COMMISSION ON WATER QUALITY

(Established in its present form 1975)

Titular Members

Chairman

1975-1979 Prof. R. WAGNER,

Chemische Abteilung, Institut für Siedlungswasserbau und Wassergütewirtschaft der Universität Stuttgart, Bandtäle 1, D-7000 Stuttgart 80 (Büsnau), Federal Republic of Germany. (TEL: 0711 7845443)

Vice-Chairman

1971-1979 Dr. K. TROBISCH,

Abteilung Reinhaltung, Wasser und Luft, Hoechst AG, D-6230 Frankfurt/Main 80, Federal Republic of Germany. (TEL: 0611 3057933)

Secretary

1975-1979 Dr. P. H. SCHWEITZER,

Chemische Abteilung, Institut für Siedlungswasserbau und Wassergütewirdschaft der Universität Stuttgart, Bandtäle 1, D-7000 Stuttgart 80 (Büsnau), Federal Republic of Germany. (TEL: 0711 7845443)

Memhers

1977-1981 Dr. J. GOLDSHMID, 37 Eli-Cohen-Street, Ramat-Hasharon, Israel.

1971-1979 Dr. P. GRAU, Katedra Technologie Vod, Vysoká Škola Chemicko-Technologická v Praze,

> Suchbátarova 5, CS-166 28 Praha 6-Dejvice, Czechoslovakia.

1977-1981 Dr. E. I. HAMILTON,

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Plymouth PL1 3DH, Devon, UK

1971-1979 Prof. E. A. PEARSON, Room 635, Davis Hall, University of California, Berkeley, California 94720, USA. 1977-1981 Mr. P. SCHÖOLTZ-HANSEN, Vandkralitets Institutet, Agen Allee 11, DK-2970 Hörsholm, Denmark.

Associate Members

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1977-1981 Dr. S. FREYSCHUSS, Institutet för Vatten- och Luftvårdsforskning, POB 21060, Hälsingegatan 43, S-100 31 Stockholm, Sweden.

1975-1979 Mr. B. GÖRANSSON, Institutet för Vatten- och Luftvårdsforskning, POB 21060, Hälsingegatan 43, S-100 31 Stockholm, Sweden.

1977-1981 Mr. J. S. LEMLIN, Esso Research Centre, Esso Petroleum Co. Ltd., Abingdon, Oxfordshire OX13 6AE, UK.

1975-1979 Prof. K. E. QUENTIN,
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Marchioninstrasse 17,
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1977-1981 Mr. R. SAVISAARI, Vesihallitus, POB 250, SF-00101 Helsinki 10, Finland.

1971-1979 Dr. E. VASSEUR, Statens Naturvårdsverk, Fack, S-171 20 Solna, Sweden.

1977-1981 Prof. R. VILAGINES,
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F-75270 Paris Cedex 06, France.

National Representative

New Zealand Dr. C. D. STEVENSON,
Chemistry Division, Department of Scientific and Industrial
1977-1979 Research,
Private Bag,
Petone, New Zealand.

VI.9 COMMISSION ON RECLAMATION OF SOLID WASTES

(Established 1975)

Titular Members

Chairman

1975-1979 Prof. S. J. PIRT,

Department of Microbiology, Sir John Atkins Laboratories, Queen Elizabeth College,

Campden Hill,

London W8 7AH, UK.

(TEL: 01-937 5411)

Secretary

1975-1979 Dr. R. C. POLLER,

Department of Chemistry, Queen Elizabeth College,

Campden Hill,

London W8 7AH, UK.

(TEL: 01-937 5411)

Member

1975-1979 Prof. A. E. HUMPHREY,

107 Towne Building D3, College of Engineering and Applied Science, University of Pennsylvania, Philadelphia, Pennsylvania 19104, USA.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COMMITTEE ON PUBLICATIONS

Composition and Terms of Office

- (i) There shall be a standing Committee on Publications composed of a Chairman, at least three and not more than six other Members, and the Scientific Editor of *Pure and Applied Chemistry*.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Committee on Publications may propose names of persons suitably qualified for appointment.
- (iii) The maximum period of service of ordinary Members shall be eight years.
- (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
- (v) The President in consultation with the Executive Committee shall appoint the Chairman. The Committee on Publications may propose candidates.
- (vi) The period of service of the Chairman shall not exceed eight years. The sum of years of service as an ordinary Member and as Chairman shall not exceed ten years.

Terms of Reference

- (i) To advise the President and Executive Committee on all matters of publications including policy.
- (ii) To make recommendations for decision by the President and/ or Executive Committee.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COMMITTEE ON SCOPE

Composition and Terms of Office

- (i) There shall be a standing Committee for SCOPE (ICSU Scientific Committee on Problems of the Environment) composed of a Chairman and not more than seven other Members.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Committee for SCOPE may propose names of persons suitably qualified for appointment.
 - (iii) The maximum period of service of ordinary Members shall be eight years.
 - (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
 - (v) The President in consultation with the Executive Committee shall appoint the Chairman. The Committee for SCOPE may propose candidates.
 - (vi) The Chairman of the Committee for SCOPE shall be the official representative of IUPAC on SCOPE. The period of service of the Chairman shall not exceed eight years. The sum of the years of service as an ordinary Member and as Chairman shall not exceed ten years.

Terms of Reference

- (i) To advise the President and the Executive Committee on the programmes and policies of SCOPE.
- (ii) Subject to the prior approval of the President and/or the Executive Committee, to carry out assignments agreed upon with SCOPE and to assist SCOPE generally in its activities.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COMMITTEE ON CHEMISTRY AND INDUSTRY

Composition and Terms of Office

- (i) There shall be a standing Committee on Chemistry and Industry composed of a Chairman and a Member from each country or region having more than one company Associate.
- (ii) The President in consultation with the Executive Committee shall appoint the Chairman and the Members. Candidates for Chairmanship and Members may be proposed by the Committee on Chemistry and Industry and by National Adhering Organizations having Company Associate programmes.
- (iii) The period of service shall be four years, renewable for a further term of four years.

Terms of Reference

On behalf of the President and Executive Committee:

- (i) To guide and inform Company Associates on IUPAC programmes and policies.
- (ii) To establish important areas of chemical science in IUPAC related to ongoing industrial needs.
- (iii) To put to industry enquiries on major chemical matters.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COMMITTEE ON TEACHING OF CHEMISTRY

Composition and Terms of Office

- (i) There shall be a standing Committee on Teaching of Chemistry composed of a Chairman, a Secretary, and six other Members.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Committee on Teaching of Chemistry may propose names of persons suitably qualified for appointment.
- (iii) The maximum period of service of ordinary Members shall be eight years.
- (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
- (v) The President in consultation with the Executive Committee shall appoint the Chairman and the Secretary. The Committee on Teaching of Chemistry may propose candidates.
- (vi) The period of service of the Chairman and of the Secretary shall not exceed eight years. The sum of the years of service as an ordinary Member and as Chairman or Secretary shall not exceed ten years.

Terms of Reference

- (i) To advise the President and the Executive Committee on educational matters.
- (ii) To coordinate the educational interests and activities of all IUPAC bodies.
- (iii) To act as an informational and coordinating body for chemical education activities throughout the world and to establish a system of National Representatives as a channel of communication. To develop liaison with international organizations such as UNESCO and with national chemical societies or chemical education committees.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING COORDINATING COMMITTEE FOR ANALYTICAL METHODS FOR CEE AND JARC

Composition and Terms of Office

- (i) There shall be a standing Coordinating Committee for Analytical Methods for the Communauté Européenne Economique (CEE) and the WHO International Agency for Research on Cancer (IARC), composed of a Chairman, a Secretary, and six other Members.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Coordinating Committee may propose candidates.
- (iii) The maximum period of service of ordinary Members shall be eight years.
- (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
- (v) The President in consultation with the Executive Committee shall appoint the Chairman and the Secretary. The Coordinating Committee may propose candidates.
- (iv) The period of service of the Chairman and of the Secretary shall not exceed eight years. The sum of the years of service as an ordinary Member and as Chairman or Secretary shall not exceed ten years.

Terms of reference

- (i) On behalf of the President and the Executive Committee to fulfil the requirements of the annual contract of CEE with IUPAC for the provision of analytical methods.
- (ii) To advise the President and the Executive Committee on analytical methods in connexion with IARC.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING FINANCE COMMITTEE

Composition and Terms of Office

- (i) There shall be a standing Finance Committee composed of five Members and a Chairman. In addition, the Treasurer shall be an *ex officio* Member but without voting power.
- (ii) The President in consultation with the Executive Committee shall appoint Members. The Finance Committee may propose names of persons suitably qualified for appointment.
- (iii) The maximum period of service of ordinary Members shall be eight years.
- (iv) The Membership shall be reviewed every two years by the incoming President in consultation with the Executive Committee.
- (v) The President in consultation with the Executive Committee shall appoint the Chairman. The Finance Committee may propose candidates.
- (vi) The period of service of the Chairman shall not exceed eight years. The sum of the years of service as an ordinary Member and as Chairman shall not exceed ten years.

Terms of reference

- (i) To advise the President and the Executive Committee on financial matters.
- (ii) To make recommendations for decision by the President and/ or Executive Committee.
- (iii) To review the IUPAC investment portfolio at least annually and make such changes as appear appropriate.
- (iv) The Finance Committee shall not have executive functions except with respect to dealings in securities. The Finance Committee shall have executive authority with respect to selection, purchases, and sales of securities held by IUPAC, provided that the Treasurer and the IUPAC Banker concur with the decisions of the Finance Committee.

STANDING ORDERS OF EXECUTIVE COMMITTEE REGARDING INTER-DIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS

Composition and Terms of Office

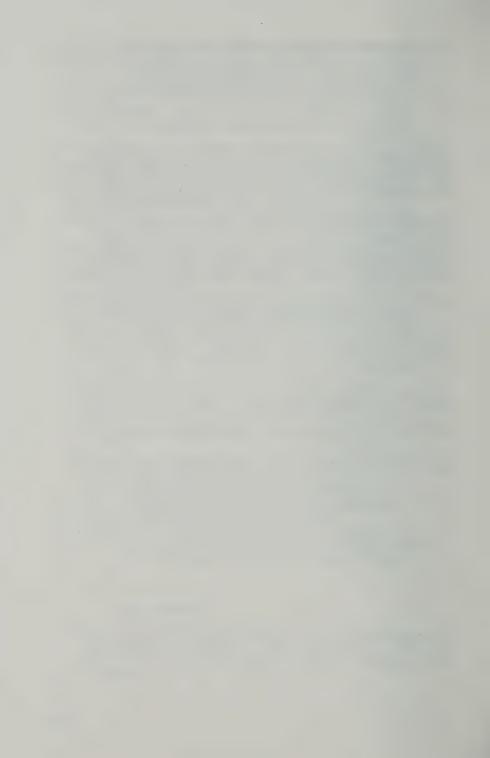
- (i) There shall be a standing Interdivisional Committee on Nomenclature and Symbols (IDCNS), composed of a Chairman, a Vice-Chairman, a Secretary, the Scientific Editor of PAC, two representatives from each Division, and one representative from the Section on Clinical Chemistry.
- (ii) The President in consultation with the Executive Committee shall appoint the representatives of the Divisions and of the Section on Clinical Chemistry. The Interdivisional Committee, Division Presidents, and President of the Section on Clinical Chemistry may propose names of persons suitably qualified for appointment.
- (iii) The period of service of representatives shall be four years, renewable for a further term of four years.
- (iv) The President in consultation with the Executive Committee shall appoint the Chairman, the Vice-Chairman, and the Secretary. The Interdivisional Committee may propose candidates.
- (v) The period of service of the Chairman, the Vice-Chairman, and the Secretary shall be four years, renewable for a further term of four years. The sum of years as a representative and as Chairman, Vice-Chairman, or Secretary shall not exceed ten years.
- (vi) The following organizations shall be invited to attend meetings of the Interdivisional Committee:

Bureau International des Poids et Mesures
International Organization for Standardization
International Union of Biochemistry
International Union of Nutritional Science
International Union of Pure and Applied Biophysics
International Union of Pure and Applied Physics

Terms of Reference

(i) To be responsible for submission to the Bureau/Council, in accordance with Bylaw 2.11, for publication or otherwise, any IUPAC document concerned with nomenclature and symbols.

- (ii) Before recommending any material for publication as an IUPAC document, to ensure that the fullest possible consultations have taken place, and the widest possible consensus has been reached among all Divisions, Sections, Commissions, and other bodies of the Union, and between IUPAC and other ICSU bodies, the international standardizing organizations, and Conference Générale des Poids et Mesures (CGPM) and its Committees.
- (iii) To ensure that any considered IUPAC view shall carry the fullest possible weight among other international organizations, all negotiations on matters concerned with nomenclature and symbols with other ICSU bodies, with the international standardizing organizations, and with CGPM and its Committees, shall be conducted through the Interdivisional Committee, which shall advise the Executive Committee accordingly.
- (iv) To be responsible, after consultations with all relevant bodies of IUPAC, for the official IUPAC comments on all documents on nomenclature and symbols sent to the Union for comment.
- (v) To advise the President and Executive Committee on suitable persons for appointment as representatives of IUPAC on other bodies concerned with nomenclature and symbols.



INDEX TO MEMBERS OF IUPAC BODIES

Abdel Kader M. M. 32, 55 Abou-El-Azm A. 2, 27 Achmatowicz O. 103 Ackermann G. 131 Adams D. B. 59 Adams R. M. 95 Agius P. J. 37 Ahrland S. 144 Airoldi G. 123 Alcock C. B. 90, 97 Alkemade C. T. J. 140 Allegra G. 116 Allen G. 115, 118 Ambrose D. 63, 77, 80 Ames S. R. 40 Amiel S. 150 Anderegg G. 144 de Angelis G. 50 Angielski S. 51 Angus S. 69, 72, 73 Ansara I. 67 Anthony A. M. 97 Armbrecht B. H. 53 Armstrong G. T. 42, 69, 72 Asahara T. 164, 167, 168

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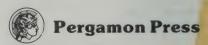
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BORON CHEMISTRY - 3

Editor: H. NOTH, University of Munich, FRG

The Third International Meeting on Boron Chemistry was held at Munich and Ettal, FDG, 5-9 July, 1976. This meeting was sponsored by the German Chemical Society and the International Union of Pure & Applied Chemistry (IUPAC). A festive session was held to commemorate the 100th birthday of Alfred Stock.

Contents: Alfred Stock and the renaissance of Inorganic Chemistry, WIBERG. Effects of orbital vacancies in Boron compounds, LIPSCOMB. Studies of the smaller Boron hybrides and their derivatives, SHORE. Organoboranes in synthesis and analysis, KOSTER. Sodium borohydride and amine-boranes, commercially important reducing agents, BUCHER and NIEDERPRUM. The synthesis, Structure, and chemical reactions of metalloboranes, GREENWOOD. NIDO-heteroboranes, STIBR et al. The aminoboronation reaction, NIEDENZU. The cyclic coordination of Boron compounds, MIKHAILOV.

Of interest to: Research and graduate chemists interested in organometallic and inorganic chemistry.

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Previously published in **Pure & Applied Chemistry**, Volume 49 No. 6, and supplied to subscribers as part of their subscription.

COORDINATION CHEMISTRY - 17

E. WEISS, University of Hamburg, FRG

The 17th International Conference on Coordination Chemistry was held in Hamburg, FRG, September 6-10, 1976, and sponsored by IUPAC. The Conference was concerned with recent developments of coordination chemistry in the following fields: (1) Structure and bonding. (2) Novel synthetic routes. (3) Kinetic and reaction mechanisms. (4) Catalytic and technological aspects. (5) New types and concepts in coordination compounds. (6) Bio-coordination chemistry. This volume contains the five plenary

Contents: Retrospect and prospect: 25 years of the LC.C.C., CHATT. 25 Jahre Ligandenfeldtheorie, HARTMANN. Aromatic transition metal complexes the first 25 years, PAUSON. Cryptates: Macropolycyclic inclusion complexes, LEHN. Koordinationsverbindungen in der Gasphase, SCHAFER.

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CRITICAL EVALUATION OF SOME EQUILIBRIUM CONSTANTS INVOLVING ALKYLAMMONIUM EXTRACTANTS

A.S. KERTES, Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel

IUPAC CHEMICAL DATA SERIES Volume 2. This work was supported by the U.S. National Bureau of Standards, as part of its National Standard Reference Data Series.

The present critical evaluation of the equilibrium constants is based essentially on the tabulation of such constants published under the title "Equilibrium Constants of Liquid-Liquid Distribution Reactions.

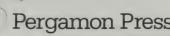
Part II. Alkylammonium Salt Extractants" (74K).

Data on equilibrium constants involving long-chain alkylammonium salt extractants have not been critically reviewed previously. In this first attempt, only two types of pertinent heterogeneous equilibria could have been considered: (1) the formation constants of alkylammonium salts, and (11) the constants of the aggregation equilibria of these salts in organic solvents employed as diluents in solvent extraction processes.

Contents: Introduction. Formation Constants of Salts: Tri-n-octylammonium chloride. Tri-n-octylammonium nitrate. Tri-n-octylammonium sulfate. Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium intrate. Tri-n-dodecylammonium perchlorate. References. Aggregation Constants of Salts: Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium perchlorate. References.

Of interest to: Research scientists in analytical chemistry and interested in separation techniques. Chemical engineering scientists. Environmental scientists.

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ETHYLENETHIOUREA

P.C. KEARNEY, US Department of Agriculture. Beltsville, Maryland

International Union of Pure and Applied Chemistry: Pesticide Terminal Residue Commission, Applied Chemistry Division. A special report on the occurrence of Ethylenethiourea as a terminal residue resulting from agricultural use of Ethylenebisdithiocarbamate.

Ethylenethiourea is a well known and fairly stable compound. It is employed commercially or industrially as an accelerator in the production of synthetic rubber. When administered under various toxicological experimental conditions, ETU has been shown to have caused, or in some cases suspected to have caused various pathological effects. These, including goiterogenic, tumorogenic and teratological effects, have raised some questions regarding the possible harmful effects as terminal residues of the relevant dithiocarbamate fungicides.

Contents: 1. Analytical Methodology, 2. Chemistry of Ethylenethiourea (ETU). 3. Dynamics and transformation of ETU residues. 4. Processing and cooking effects on EBDC'S. Conclusions. Recommendations

Of interest to: Graduate and research workers in organic chemistry, farmers, agricultural advisers and pest control specialists. Processed food manufacturers.

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Previously published in Pure & Applied Chemistry, Volume 49 No. 5, and supplied to subscribers as part of their subscript on.

ADVANCES IN SMOKING OF FOODS

A RUTKOWSKI, Agricultural University of Warsaw, Poland

This international symposium was sponsored by the International Union of Pure and Applied Chemistry (IUPAC) and the International Union of Food Sciences and Technology (IUFoST), Warsaw, 8 - 10 September,

Although the smoking or smoke flavouring of foods is an age-old process, many changes have occurred in recent years. Four general factors have influenced these changes, and/or supplied the need for change, namely. (1) the desire for the better control of the flavour and colour of smoked foods, (2) the concern for possible carcinogenesis by components in wood smoke, (3) the need to reduce smoke effluent and (4) the constant need for better plant design and faster output.

Contents: The phenomena of quality in the smoke curing process, TILGNER. Physical and chemical

processes involved in the production and application of smoke, RUSZ and MILER. Analysis of smoke and smoked foods, HAMM. Contribution of smoke compounds to sensory, bacteriostatic and antioxidative effects in smoked foods, BARYLKO-PIKIELNA. Some facts and legislation concerning polycyclic aromatic hydrocarbons in smoked foods, WALKER. Novel concepts in technology and design of machinery for production and application of smoke in the food industry, HOLLENBECK.

Of interest to: Manufacturers and food technologists. bacteriologists, physicochemists and organic chemists.

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YCOTOXINS IN FOODSTUFFS - 3

M. JEMMALI. INSERM-INRA-16, rue Nicolas Fortin 75013. Paris

The Third International Symposium on Mycotoxins in Food stuffs, Paris 16 - 18, 1976 was sponsored by the International Union of Pure and Applied Chemistry (IUPAC), The French Committee for Chemistry and the French Committee for Sciences of Nutrition.

The emphasis of the Symposium was on control measures for mycotoxins in foodstuffs and on the toxicological aspects. The important subject of decontamination was one of the key features of the Symposium.

Contents: Food mycotoxins survey and monitoring programs, CAMPBELL. Sampling granular foodstuffs for aflatoxin, WHITAKER. Mycotoxin tolerances in foodstuffs, KROGH. Mode d'action des mycotoxines, MOULE. Mode of action of Trichothecenes, UENO. Mode of action and human health aspects of aflatoxin carcinogenesis, BUTLER and NEAL. Short-term tests and mycotoxins, MALAVEILLE and BARTSCH. Review of prevention, elimination and detoxification of aflatoxine, GOLDBLATT and DOLLEAR. The mycotoxins and human health hazards, LINSELL. Metabolism of aflatoxin and other mycotoxins in relation to their toxicity and the accumulation of residues in animal tissues, PATTERSON. Some new mycotoxins, STEYN

Of interest to: Research workers from university, industry and government institutions dealing with applied biology, microbiology, contamination of raw materials and phytopathology.

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LOW MOLECULAR WEIGHT SULPHUR-CONTAINING NATURAL PRODUCTS

International Symposium on Low Molecular Weight Sulphur-Containing Natural Products, Jablonna, Poland, 6-10 July 1976

Editor: J.T. WROBEL, Department of Chemistry, University of Warsaw, Poland

Contents:

Low molecular weight sulphur-containing compounds in nature: a survey: KJAER. Oxidation of some biologically active and related sulfur-containing compounds: OAE et al. a-mercapto-a-amino acids and dehydro amino acids. Syntheses, relationships and interconversions: SCHMIDT. Properties of sulfurcontaining nuphar alkaloids: LALONDE and WONG. New aspects of the chemistry of biotin and of some analogs: MARQUET. Glucosinolates: BENN.

Of interest to: Biochemists, pharmacologists,

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PHYSICAL ORGANIC CHEMISTRY - 3

Third IUPAC Conference on Physical Organic Chemistry: La Grande-Motte, Montpellier, 6-10 September 1976

Editor: A. FRUCHIER, Université des Sciences et Techniques du Languedoc, Montpellier

Contents:

Equilibrium acidities of carbon acids: BORDWELL. Micellar catalysis and inhibition: BUNTON. Quantum chemical studies of CO, CS and related double bonds: KUTZELNIGG. Some mechanistic studies on the hydrolysis of acetals and hemiacetals: CAPON. Mechanisms and catalysis in vinyl ester hydrolysis: EURANTO. General acid-base catalysis of carbonyl and acyl group reactions: JENCKS and GILBERT. Strain energy modeling of simple and crowded aliphatic

ketones: spectroscopic properties: DUBOIS, Stereochemistry of dissolving metal reduction of ketones: RASSAT. The hydrolysis of phosphate esters: WESTHEIMER

Of interest to: Organic chemists, teachers and graduate students.

ISBN 0 08 021197 6 273 x 188mm 110pp

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CARBOHYDRATE CHEMISTRY -- 8

8th International Symposium on Carbohydrate Chemistry, 16-20 August, 1976, Kyoto, Japan

Editor: K. ONODERA, Kyoto University, Japan

Contents:

The selective degradation of carbohydrate polymers: ASPINALL Conformations of uronic acid containing polysaccharides: ATKINS, Fourier transform NMR Spectroscopy. Nitrogen-15 studies of amino sugars: COXON. Lectins as carbohydrate-binding proteins: GOLDSTEIN. Approaches to the total synthesis of natural products from carbohydrates: HANESSIAN and RANCOURT. Glycosphingolipids with blood group A, H and I activity and their changes associated with ontogenesis and oncogenesis: HAKOMORI et al. Recent aspects of the chemistry of disaccharides: HOUGH. Structural studies of some bacterial polysaccharides: LINDBERG. Synthesis of amino- and branched chain mono- and oligosaccharides: PAULSEN, Structural features of the Bordetella Pertussis endotoxin: SZABO. Direction of carbohydrate research in the near future: WHISTLER.

Of interest to: Research graduates in carbohydrate chemistry and biochemistry and postgraduate students majoring in organic chemistry or biochemistry. Pharmacologists

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IUPAC COMMISSION ON NOMENCLATURE OF INORGANIC CHEMISTRY A NEW JUPAC PUBLICATION

HOW TO NAME AN INORGANIC SUBSTANCE

Guide to the Use of Nomenclature of Inorganic Chemistry (The Red Book)

Editor: W. CONARD FERNELIUS, Kent State University, Ohio 44242

The recommendations of the IUPAC Commission on Nomenclature of Inorganic Chemistry embodied in "NOMENCLATURE OF INORGANIC CHEMISTRY" (2nd Ed.) 1970 are the international standard for English speaking chemists, and, through translation, for chemists speaking other languages. It is a matter of concern to the Commission that Recommendations are not always followed by practising chemists. Although the rules are detailed and extensive, some chemists without a broad working knowledge of inorganic chemistry report that they find the rules difficult to apply to specific cases. It is hoped that this Guide will aid all who have occasion to use "The Red Book" to locate more quickly those portions of the rules (indicated by rule number) that are pertinent to their areas

The Guide has been developed along the following lines:

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- 2) Table II, "Names for lons and Radicals", was greatly expanded and annotated so that a person needing to name a compound could locate the compound or a similar one in the table and go directly to the appropriate rule.
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- 2. Molecular hydride or —ane names. 3. Substitutive names (\S C-0. 1). Cations derived by proton addition to molecular hydrides. 5. Oxo acids and their salts. 6. Condensed acids and their salts. 7. Mixed salts.
- 8. Replacement names. 9. Coordination names (§ 7). 10. Functional class names. 11. Functional suffix nomenclature, 12, Additive names, Subtractive names, Procedure, References, Names for ions and radicals, Table of atomic weights 1975.

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